

\$18M going into core coffers

Find out why U of A's research success continues to grow.

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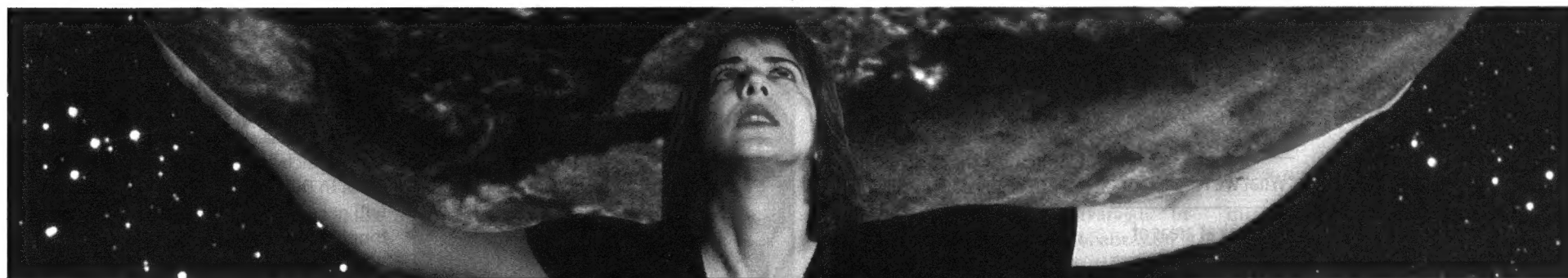
The feminization of poverty: a global perspective

Sexual exploitation, low wages, violence against women, impoverishment and globalization. Read up on the arguments to be made at this Congress 2000 colloquium.

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Next Folio is June 16

Deadline for all entries is June 9.



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Diabetes breakthrough has patients off insulin injections

U of A researchers are leading the way to a cure

By Phoebe Dey

Ten-year-old Amanda Sperle was bracing herself for her daily needle when she heard a radio broadcast about U of A researchers freeing diabetics from insulin injections.

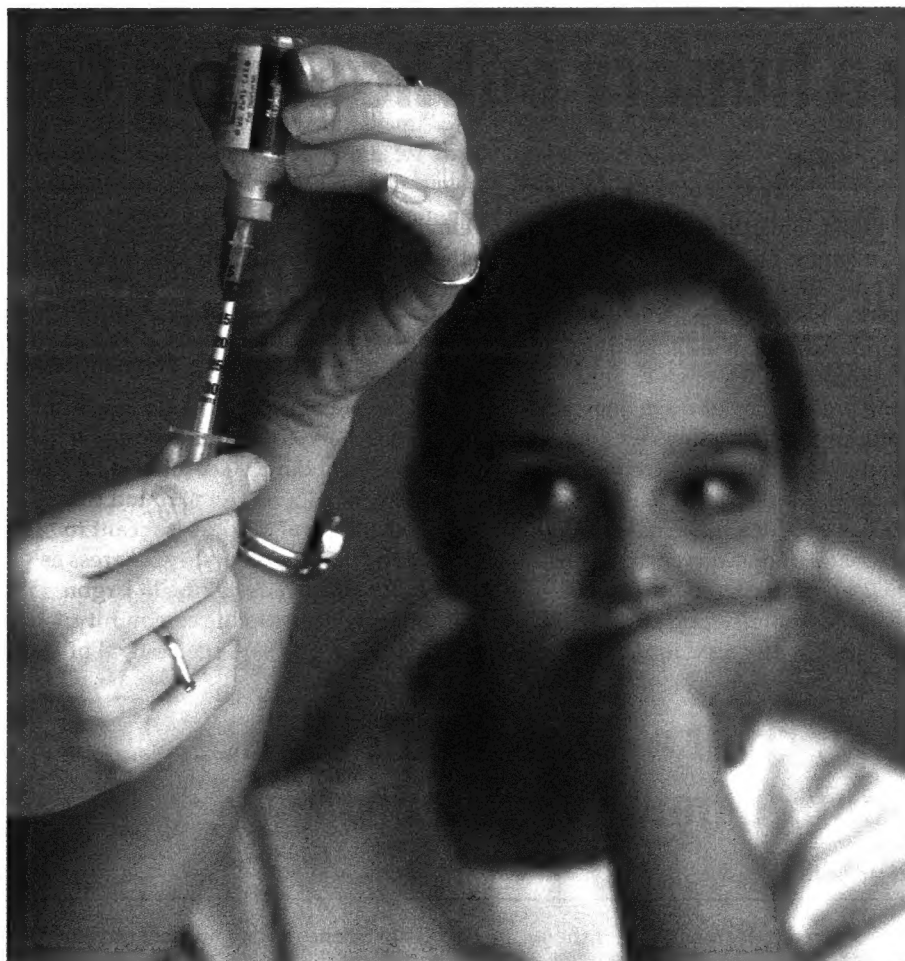
Her mother Alvina, who was giving the needle, commented on how great that would be for Amanda, an insulin-dependent diabetic for more than three years.

"Amanda said, 'It's probably years away,' and she's probably right, but it still offers hope," said Sperle of the medical discovery. "This news is wonderful."

The Sperles' reaction to the news is indicative of what other families around the world were thinking. E-mails and phone calls have been pouring into the U of A since researcher Dr. James Shapiro recently announced his team's breakthrough at a conference in Chicago.

Led by Dr. Ray Rajotte, the team includes Shapiro, a transplant surgeon, Dr. Jonathan Lakey and Dr. Greg Korbitt. Shapiro successfully transplanted donor pancreatic cells—cells needed to produce insulin—into eight people from Alberta, Saskatchewan and Yellowknife. All of them needed up to 15 self-injected insulin shots a day before the study.

The transplants took place more than a year ago and since then, none of them have needed insulin injections and they no longer need to monitor their diet. A new immune-suppressant drug called Rapamune, which became available in the United States last year, is a



St. Martin Catholic Elementary School student Amanda Sperles and her mom Alvina are hopeful U of A research will soon free all diabetics from their daily injection routine.

crucial part of the treatment. It can be given in low doses and does not appear to have some of the side effects of most immune suppressants.

The findings will soon be published in the *New England Journal of Medicine* (the researchers are unavailable for comment until then).

After Shapiro told the American Society of Transplant Surgeons and the American Transplantation Society about the discovery, the story broke in the British press and from there, the news travelled around the world.

Bill Book, board chair for the Alberta Foundation for Diabetes Research, is not surprised with the response.

"We've been working for the last 12 years to reach this day," said Book, whose foundation donated \$1.8 million for the clinical trial. "The islet transplant team is probably even more ecstatic."

The research team was also supported by the Alberta Heritage Foundation for Medical Research.

Although finding donor organs for other severe diabetics will be difficult, the impact on the eight people involved is momentous, said Book.

"Insulin injections, diet and blood testing is not a great lifestyle," he said. "These eight patients who are now producing insulin on their own can get back to a normal life most of us live everyday."

That normal life is what Sperle hopes her daughter Amanda will have someday.

"It's as difficult or more difficult than the day she was diagnosed," said Alvina. The family knows what the future may hold too. Amanda's diabetic father faced complications such as kidney disease and loss of eyesight.

"As she hits her pre-teen resistance years, she's starting to question, 'Why me?' It scares me."

"This news, even if [a cure is] a few years away, is just wonderful. It's the only hope we have." ■

For hire: 118 federal research chairs

By Geoff McMaster

The University of Alberta will be home to 118 Canada Research Chairs, allocated over the next five years. The chairs, meant to enhance and consolidate areas of "world-class research excellence," will bring in more than \$18 million in funding for the U of A.

"This is the biggest investment of the federal government in post-secondary education in a direct way probably in the history of the federal government, excepting perhaps the creation of the Canada Council in the 1950s," says Vice-President (Academic) and Provost Doug Owram.

The U of A is ranked fifth in Canada for federal chair allocations, assuming all positions are filled within three years. The government will hand out a total of 2,000 chairs across the country, worth \$900 million, by 2004-05. The program is designed to stem the brain drain from Canadian schools by helping institutions identify and bolster areas in which they have a comparative advantage. ■

See "More than \$18 million," page 2.

CANADA RESEARCH CHAIRS TOP 10:

1. University of Toronto—251
2. McGill University—162
3. University of British Columbia—160
4. Université de Montréal—138
5. University of Alberta—118
6. Université Laval—98
7. McMaster University—96
8. University of Calgary—69
9. University of Western Ontario—64
10. Queen's University—60

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More than \$18M to be added to core budget over five years

University of Alberta lands 118 Canada Research Chairs, placing it among the Top 5 recipients in the country

By Geoff McMaster

The University of Alberta is in great company, landing 118 Canada Research Chairs over the next five years. That's right up there in the big leagues, in terms of overall numbers, next to University of Toronto, McGill, UBC and Université de Montréal. The University of Calgary received 69 chairs, placing eighth among the Top 10 in Canada.

"This is the biggest investment of the federal government in post-secondary education in a direct way probably in the history of the federal government, excepting perhaps the creation of the Canada Council in the 1950s," says Vice-President (Academic) and Provost Doug Owram.

"It gives us the opportunity to hire in strategic areas in a way that we wouldn't be able to otherwise," says Owram. "It's also hoped this program will help to make us more competitive with the American institutions—that's one of the reasons the federal government has come into this."

Allocations are made according to a post-secondary institution's record of suc-

cess with the three major funding bodies—the Medical Research Council (now the Canadian Institute for Health Research), the Natural Sciences and Engineering Research Council and the Social Sciences and Humanities Research Council. At the U of A, the health sciences will receive 45 of the 118 chairs, the natural and applied sciences 54, and the humanities and social sciences 19.

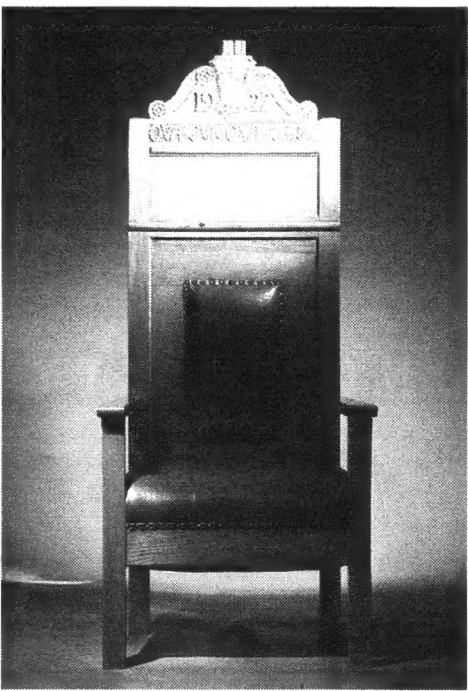
"What we're going to do is look at areas of excellence and build in these strategic areas."

—Vice-President (Academic) and Provost Doug Owram

"We received these funds based on the success of researchers we've already had at the University of Alberta," says Vice-President (Research) Roger Smith.

Institutions must now submit nominations for the positions (including both internal and external candidates), along with strategic plans by September. Some internal appointments will be made as early as December, says Owram, more will follow in July 2001, and the rest will be in place by 2004.

The chairs will be split between senior "research stars," acknowledged by peers as world leaders in their fields, and junior "fu-



For hire: 118 federal research chairs will add more than \$18 million to the core budget over five years.

ture research stars," recognized as having the potential to become leaders. All will be chosen, says Owram, with a view to creating

a "critical mass" in areas of research strength rather than on the basis of any individual faculty member's track record.

"What we're going to do is look at areas of excellence and build in these strategic areas. Proposals that come forward which are strong and link to other areas in the university are the ones that will get support...We have to make some tough choices."

The university will receive \$200,000 for each senior chair and \$100,000 for each junior chair, and will be eligible for an additional \$125,000 in start-up funding for each chair from the Canada Foundation for Innovation (CFI).

"It's important to recognize that this program...differs substantially from existing granting programs in that it does provide for some of these indirect costs," says Smith. He added, however, since CFI will only cover 40 per cent of any proposed infrastructure costs, the university must come up with the other 60 per cent.

Support funding will go towards "everything from the library to graduate students, renovations and attention to all the overhead issues that come with adding staff," says Owram. ■

Festival of Ideas provides food for the mind for a hungry public during Congress 2000

By Sheamus Murphy

Ever get the feeling the morning newspaper, evening TV and everyday talk just don't dig enough beneath the surface? Historian Dr. Lesley Cormack of the U of A says a preoccupation with the superficial is a symptom of the modern age.

"There are people out there interested in big philosophical questions without a lot of space in their lives to sit at the pub and talk about Kierkegaard," she says. "At the same time, it's in the interests of multinational corporations and governments to keep us docile, so people feel they have a good life."

In response to the need for intellectual

reinvigoration, Dr. Cormack, along with other U of A faculty, is chairing a public discussion group in the first-ever Festival of Ideas, a series of off-campus public presentations, theatre readings, dances and debates.

As the public face of the Congress of the Social Sciences and Humanities, which has attracted about 6,000 professors to the University of Alberta from around the world, the Festival of Ideas is meant to change the perception of the Congress as "a bunch of eggheads talking in jargon without connecting to the community," says Cormack. She says the Festival of

Ideas "is a way of bridging that gap" between the university and the community.

The festival will offer a wide array of about 30 events, ranging from live theatre and music, visual art and film, philosopher's and language cafés, poetry readings, book launches, special lectures and discussion groups. It's being held at different locations across the Capital Region until May 31.

Get the complete program in the *Edmonton Journal*, call 492-2325, or visit www.ualberta.ca/IDEAFESTIVAL for more information. ■

Former chair of computing science appointed new AVP research

By Geoff McMaster

Dr. Paul Sorenson, former chair of the Department of Computing Science, has been appointed associate vice-president (research). He will take over duties from Dr. Ron Kratochvil who is now officially retired.

Vice-President (Research) Roger Smith says Kratochvil's position was turned into a full-time AVP position "because of the increased activity of the office in terms of new research programs and major initiatives coming down the road." Smith cited the new Canada Research Chairs program, the creation of the Alberta Heritage Foundation for Science and Engineering Research, the expansion of the Canadian Institute for Health Research, and the development of a "life-sciences strategy" by the provincial government as examples.

"There are so many things going on that it's really critical to continue the type of work Ron has been doing," says Smith. "Paul comes from a background related to information and communications technology and has clear, in-depth experience in the

Faculty of Science over a number of years."

Sorenson has been a professor of computing science at the U of A since 1989—serving as chair until two years ago—after a 14-year stint at the University of Saskatchewan. He received his bachelor's and master's degrees from the University of Alberta in the late '60s and a doctorate from the University of Toronto in 1974.

Most recently he helped found Avra Software Lab, a U of A spin-off company specializing in e-commerce software. He also helped found WestMOST, a consortium of Western Canadian Universities and industry partners developing an M.Sc. program in software-technology programs.

"One thing I'd like to facilitate is more awareness in the community of the things happening in the science and engineering area," says Sorenson of his appointment. "Some of these things we've already facilitated through technology transfer and spin-off companies, but there's still more we can do." ■



Associate Vice-President (Research) Paul Sorenson

Web Watch

By Randy Pavelich

University of Alberta ExpressNews
www.ualberta.ca/expressnews/

An initiative from the Office of the President and coordinated by the Offices of Public Affairs and Creative Services, the ExpressNews site offers current news stories, opinion pieces, student columns, special features, events, links and much more. The interface is clean and simple, matching closely the look and feel of the new U of A home page. It's a must-see every day for the latest at the U of A.

Tour of Engine 31
www.city.davis.ca.us/fire/tour/

Intended for the younger members of the family, this fun example of a Flash-enhanced site takes you around—and into—a fire truck, courtesy of the City of Davis, Calif. Areas of the truck can be "opened" and some of the equipment can be examined closely. The site's navigation is reasonably effective and the presence of extra touches such as a printable cutout make it a winner in the "edutainment" field.

E-mail your suggestions to randy.pavelich@ualberta.ca.

folio

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...it makes sense.

The University of Alberta maintains a database of all alumni. This database is used to send you news about the U of A, including *Folio* and *New Trail*, invitations to special events and requests for support. On Sept. 1, 1999, post-secondary institutions were required to comply with the Freedom of Information and Protection of Privacy legislation of the province of Alberta. In accordance with this legislation, please respond to one of the following options:

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The feminization of poverty: a global perspective

By Geoff McMaster

The same story could be told with familiar resonance almost anywhere in the world: A woman returns home after putting in a brutal day of work, including unpaid overtime, under deplorable conditions in a factory "sweatshop." The kids haven't been fed and are crying for dinner, but their mother hardly makes enough to ensure their most basic nutritional needs. And the father? He's long ago abandoned the family in search of more lucrative employment.

It's not a new tale, but according to the experts, it's fast becoming a global norm.

In the 4,000 Mexican "maquiladoras" (manufacturing, assembly and packing plants), to take just one example, more than 60 per cent of the roughly one million workers are women. Their wages—bad enough to begin with—are dropping every year.

According to Dr. Jean-Luc Chodkiewicz, a cultural anthropologist at the University of Manitoba, it takes about four hours of hellish work in a maquiladora to buy one kilo of beans, eight hours to buy a kilo of beef. As a result of this crushing poverty, largely attributable to economic adjustments made by the International Monetary Fund and World Bank, the number of children under five who die in Mexico every year is rising sharply.

The same exploitative wages and working conditions—fall-out from the rapid advance of globalization—can be found in many developing nations. But it's hardly necessary to look to the Third World to find huge numbers of women suffering from economic hardship. According to the Canadian Research Institute for the Advancement of Women (CRIAW),

one in five Canadian women, or 2.8 million, is living in poverty.

"Canada really is one of the richest countries in the world," says Marika Morris of CRIAW. "If we can't at least try to eliminate poverty here, then where can it be done?"

"Canada really is one of the richest countries in the world. If we can't at least try to eliminate poverty here, then where can it be done?"

— Marika Morris,
Canadian Research
Institute for the
Advancement of Women

Morris and Chodkiewicz will join panel members Dr. Habiba Zaman (women's studies, Simon Fraser University) and Dr. Vanaja Dhruvarajan (sociology, University of Manitoba) on campus May 29 for a discussion on "Globalization and the Feminization of Poverty." It's part of an international Congress 2000 colloquium titled "Globalization, Societies, Cultures" which will examine links between sexual exploitation, violence against women, impoverishment and globalization.

Dhruvarajan argues "decades of feminist, anti-colonial and anti-racist struggles are gradually being eroded due to the globalization of capitalism." She blames multinational corporations for abdicating social responsibility in their quest for power and says "in every case, women as care givers are bearing the brunt of these onslaughts."

"Initially, economic development and globalization were supposed to help everybody and

enrich everybody," says Dhruvarajan. "Instead, what's happening is globalization is being superimposed on the patriarchal structure...women tend to have all these responsibilities but don't have any power to influence decisions in their favour."

Dhruvarajan says in many African countries, her own area of focus, cash crops such as sugar cane and coffee are dominating the agricultural economy to such an extent there is little fertile land on which to grow food. And it's often up to the women to farm the poor land, she says.

"Because of globalization, men are leaving the villages in search of better employment. Women are left with the children...In day-to-day life, they're the ones who have to answer to the children when they come asking for food. In that sense they are front-line workers. It's the same in times of war and civil strife."

Bleak as this scenario may be, however, Dhruvarajan sees signs of hope in the rise of international feminist movements and the forging of coalitions. Internet technology is also allowing women in remote locations to connect in ways they never have before, she says, and recent protests against the growing power of international capitalism in Seattle and Washington, D.C.

demonstrate
people are
at least

questioning the global distribution of wealth.

In fact Chodkiewicz argues for a more balanced view of globalization, one acknowledging some of its more positive consequences. He says he'll certainly talk at some length in his lecture about the "nasty effects" of globalization in the Mexican context. "But on the other side, I show globalization has been used by some

people... and harnessed by local populations [to effect change]." He points specifically to the revolutionary Zapatista movement, which employed sophisticated media strategies to lobby the government to change its policies.

"It's quite remarkable," says Chodkiewicz,

"in the sense it's not the kind of peasant rebellion you have seen for centuries. They don't go around with forks and old guns crying for 'my land, my land.' Instead, they've been using the Internet and the international media, which has saved them from immediate retaliation from the Mexican army."

The Zapatista movement has also managed to create a national and international groundswell of support for the Mexican peoples' cause, largely because of their global views on human rights, multicultural diversity and gender equality.

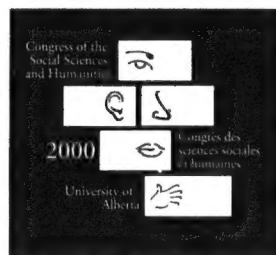
"Instead of fighting just for their own rights, they have been fighting for everybody's rights. They have, which is remarkable in Mexico, been fighting for women's rights. And they have a number of female leaders...In my opinion it's a movement very much marked by the cultural aspect of globalization, because a number of ideas, such as equality for women and so on, are not indigenous ideas."

And so with the spread of global capitalism, say the academics, we are also beginning to see seeds of resistance, aided by global networking and a general raising of awareness concerning the exploitation of women. As Morris points out, this year will be marked by a world march of women, consisting of a number of activities and events in 160 countries. The main focus of the march: poverty and violence. In fact the United Nations General Assembly will hold a meeting in New York just days after Congress 2000, she says, to follow up on commitments made to women's rights in Beijing in 1995.

Here in Canada, Dr. Louise Forsyth, president of the Humanities and Social Sciences Federation of Canada, plans to make a case for a third strategic grant theme of the Social Sciences and Humanities Research Council—following those of the past decade on "Women and Work" and "Women and Change"—to consider research proposals on "Women and Globalization."

Morris adds more people need to be made aware of the "structural reasons" for the over-representation of women among the poor in Canada and how "Canadian public policies, particularly over the past five years, contribute to the poverty of women."

"As long as the majority of the poor in Canada are women, there is a problem," she says. "The women's movement has never fought for the equality of only some women. We're not going to get there until we have equality for all women." ■



Tina Chang and Annie Schroeder

Some statistics on women and poverty in Canada, compiled by the Canadian Research Institute for the Advancement of Women:

- Fifty-six per cent of lone-parent families headed by women are poor, compared with 23 per cent of those headed by men.
- Almost half (49 per cent) of single, widowed and divorced women over 65 are poor.
- Forty-one per cent of unattached women under 65 live in poverty.
- Women make 73 per cent of what men earn for full-year, full-time work.
- Education does not reduce the wage gap much: women with university degrees, employed full-year, full-time, earn 75 per cent of what men with university degrees earn.
- Canada has the fifth-largest wage gap between women and men full-time workers out of the world's 29 most developed countries. Only Spain, Portugal, Japan and Korea have larger wage gaps.
- The average annual income of aboriginal women is \$11,900, compared to \$17,400 for aboriginal men, and \$17,600 for all Canadian women.
- In Canada, it is not enough to have a job to keep you out of poverty. Most poor people do work full- or part-time. Sixty-seven per cent of minimum wage earners in Canada are women.

»» quick »» facts

Philosopher slams irrelevance of academic philosophy

Congress 2000 speaker says 'philosophy has specialized into irrelevance'

By Geoff McMaster

Dr. Peter Raabe has little patience with "pure philosophy" or "knowledge for its own sake." In fact he calls them "euphemisms for uselessness." They're words you might expect from someone engaged in the practical pursuits of business or medicine, but from a philosopher?

"Philosophy has become so specialized that much of what is done by philosophers is irrelevant even to other philosophers," Raabe said Wednesday at a Congress 2000 symposium on public philosophical practices in the real world. "Contemporary academic philosophy is not the best, or even any, example of what it means to practice philosophy... The philosopher is never himself at risk in a lifeboat dilemma."

An instructor in the philosophy of education at the University of British Columbia, Raabe is also one of the innovators of the hugely popular philosopher's café movement in the Vancouver area, a public forum where people unschooled in theory can discuss issues that touch their lives. The trend has now spread to the University of Alberta, which launched its own philosopher's café series last fall.

But what informs Raabe's perspective most of all is his work as a philosophical counsellor. In fact he's the first Canadian to receive a doctorate based on this hybrid profession, which uses philosophical inquiry to help individuals come to a better understanding of themselves and their world when other forms of psychotherapy have failed.

In a strongly worded attack on the prevailing brand of academic philosophy that explores problems with little relevance to people's lives, Raabe said the main purpose of philosophy was once the relief of human suffering, according to early Greek philosophers such as Epicurus.

In the centuries since then, "philosophy has systematically given away to others, such as biologists, astronomers and doctors, anything that ever became a practice in that field... Philosophers gave the practice of philosophy to psychotherapists."

But philosophy's flight into the pursuit of abstract, universal truth and its abandonment of the particulars of human life, says Raabe, began with Socrates, who took his own life to defend a principle.

"It is the tragedy of Socrates' own life which exemplifies what has gone wrong with philosophy. What he did wrong was accept his state's challenge to participate in a war of principle... rather than follow the advice of those who loved him by doing any number of things they suggested to save himself."

In Socrates' view, the philosopher was more preoccupied with explaining the human condition than in getting to know the person next door, says Raabe, and it's an attitude contemporary academic philosophy has inherited to its detriment.

"Discussing the human condition is not the same as participating in the actual activity of changing the human condition for the better," he said, adding philosophy only helps philosophy students become better philosophy students. Personal struggles are seen as "irrelevant to meaningful academic discussion... Academic philosophy is merely the process of teaching and learning academic process."

He said philosophers kid themselves if they think their musings on business or medical ethics make a real difference.

"The world of business is changed by people trained in business," he said, "and the world of medicine is typically



UBC's Dr. Peter Raabe: little patience for "pure philosophy."

changed by people trained in medicine, not philosophy."

For more information on Raabe, philosophical counseling and the world of practical philosophy, check out his Web site at www.interchange.ubc.ca/raabe/, or the site for the Canadian Society for Philosophical Practice at www.geocities.com/Athens/Thebes/5590. You can also see one of four philosopher's cafés in action at Festival of Ideas: www.ualberta.ca/IDEAFESTIVAL. ■

\$14M kick for the Canadian Institute for Advanced Research

By Lucianna Ciccocioppo

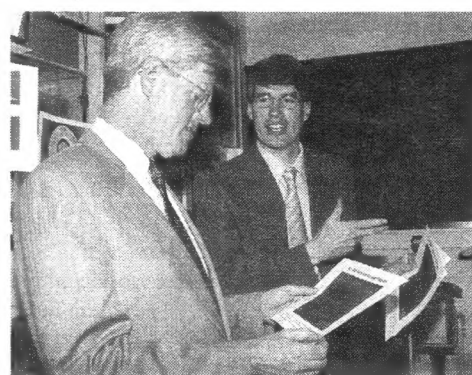
Canadian scientists involved in high-tech research, such as nanoelectronics, will be able to benefit from a \$14-million boost to the Canadian Institute for Advanced Research (CIAR), which was announced today on campus.

Federal Industry Minister John Manley made the announcement during a tour of the U of A's nanoelectronics laboratory. Nanoelectronics, part of the CIAR's newest program, develops and uses devices only a few nanometres—that's one billionth of a metre—in size.

"Understanding and getting more detailed information about this phenomenon further develops new technology," said Dr. Mark Freeman, an associate professor of physics, whose work is funded by the CIAR.

Nanoelectronics could provide alternatives to the silicon microchips that drive the world's information economy.

In his research, Freeman uses a scanning tunneling microscope and laser



Now that's tiny: physics professor Mark Freeman (right) and federal Industry Minister John Manley discuss nanoelectronics, part of the CIAR's newest program that develops and uses devices only a few nanometres—one billionth of a metre—in size.

pulses to observe something that is otherwise just a blur. To demonstrate how this works, Freeman turns on a small household fan in the laboratory. All you can see is the blur of the blades, until he turns on a

strobe light. The light gives the appearance of slowing down the blades of the fan, and at just the right strobe speed, the blades appear motionless.

As physicists, chemists, biologists and engineers increasingly work on "nano" scales, said Freeman, it becomes more critical for researchers to understand and define the structures required to study this phenomenon.

"CIAR, which permits university-based scientists to conduct long-term research and supports international interactions among researchers, has produced a wide array of research breakthroughs that will improve the quality of life for Canadians," said Manley. "Supporting CIAR is also one of the most cost-effective ways for this government to keep talented scientists in Canada."

CIAR is known as Canada's "university without walls." The funding body helps promote networking and research opportunities among world-class scientists

tackling fundamental questions in the physical, biological and social spheres.

Thomas Kierans, CEO of CIAR, said the organization funds about \$10.5 million in research projects a year. About 111 researchers in Canada and 82 internationally are funded by CIAR.

"The University of Alberta is keen to increase its linkages with CIAR and to increase its presence on campus," said Dr. Roger Smith, vice-president (research).

Currently, Drs. Freeman, Frolov, Marsiglio and Page are CIAR program members. The physics department chair, Dr. John Samson, sits on CIAR's research council, as did President Rod Fraser.

At the same time, Manley announced the Canadian Network for the Advancement of Research, Industry and Education (CANARIE) will award a total of \$10 million to 10 projects across Canada, including Alberta's Netera Alliance, of which the U of A is a member, and to Edmonton's Canadian Learning Television. ■

Clinical Trials and Research Centre opens on campus

By Lucianna Ciccocioppo



The Northern Alberta Clinical Trials and Research Centre: research access to a large patient base and leading-edge facilities for the CHA and the U of A.

Edmontonians now have easy access to one of Canada's most advanced clinical research centres, thanks to a partnership between the Capital Health Authority and the University of Alberta.

The Northern Alberta Clinical Trials and Research Centre is a "one-stop" venue for high quality, timely and cost-efficient clinical trials and research in vaccine development, diabetes treatment, prostate cancer, stroke prevention and emergency medicine.

"The advantage here is nurses, physicians and the research infrastructure are all in one centre," said Dr. Lorne Tyrrell, dean of the Faculty of Medicine and Dentistry. "We have the statisticians working along with those who design the studies and easy interaction between nurses and physicians."

The centre, located on the 18th floor of College Plaza, will generate new medical knowledge and will aid in improving health care and services for the 800,000 residents in the Capital Health region, and a total of 1.2 million residents in central and northern Alberta.

"It gives research sponsors access to Capital Health's large patient base and state-of-the-art facilities and to the U of A's extensive research community," said Dr. Paul Man, the centre's medical director. "It provides physician-investigators with more responsive, centralized, administrative services."

The centre is already working in high gear. Open since January, it is currently administering 287 new clinical trials. Add that to the approximately 1,000 clinical trials ongoing at any given time and the

U of A and CHA are involved in trials worth more than \$8 million a year. The goal is to double that figure to \$16 million by 2004.

Even more exciting is the prospect for Phase 2, a venue about triple the size of the centre, which is proposed for the new Health Innovation Centre, said Tyrrell. "This will place the Faculty of Medicine and Dentistry, the U of A and the CHA in a position of unmatched strength in biomedical, clinical and health-outcomes research. The Health Innovation building will lead not only to Canada's finest clinical trials centre but to one of the world's finest academic health centres."

Minister of Innovation and Science Lorne Taylor said people already talk about Alberta being the place to be in Canada to conduct scientific research.

"We have to do better than that," he said. ■

Reflections on Congress 2000: ideas matter

By Dr. Louise H. Forsyth, president, Humanities and Social Sciences Federation of Canada

It is always a wonderful high for me to be able to attend the annual Congress of the Social Sciences and Humanities. This year it's in beautiful Edmonton at the University of Alberta. Last year it was in the Eastern Townships of Quebec. Next year it will be in Quebec City and then Toronto the year after that. We used to call these the meetings of the Learned Societies. Speaking of "the Learned" evokes a long and proud tradition of about half a century during which humanities and social sciences students and scholars from across Canada and many other countries got together to share their research and teaching passions. The meetings have been a chance to share discoveries and insights and to grapple collaboratively with the questions still remaining. At these meetings, an incredible number of the scholars who are engaged in maintaining the energy and vitality of the liberal arts in Canada are able to claim renewal. And together we have built the largest annual interdisciplinary research conference in North America.

The message prevailing in every meeting at the annual congress, in every casual conversation—and at the Book Fair—is ideas matter. This is what makes these days so wonderful for me. Ideas matter! There is no need to argue that here. They are at the heart of our humanity, our society, our shared cultures, not just for those who call themselves scholars but for everyone, including children with their insatiable curiosity. We sense we are human because

we need to explore who we are, what our experiences mean, where we are in time and place, and where we collectively have been. The paths we are travelling as persons and as citizens call us to want to know some of the answers others have

given to the questions we are asking, the visions others have evoked through imagination, study and reflection, the new ways of seeing that promise to chart fresh paths for us. We need to know more about what's not working in people's lives, to make informed decisions about what we should do about problems and opportunities.

We just know ideas have integrity in their ways of maturing. They enrich and enhance each life. They also contribute to a better society, in-

cluding a better economy. They generate jobs and provide the material for the constructive solution of problems. These are among the vital practical functions that ideas have. Yet they are far from the only ones which is why the annual congress is so important. We savour sharing our own ideas and those of others. We will leave revitalized as creative and thinking individuals. Our students, colleagues and communities will be much richer for it.

Some of the ideas that matter to us as students and scholars in the humanities and social sciences have been transformed over the years. Some have undergone rapid change in the recent past, in both content and the medium of communication by which they travel. Other ideas, and the ways they are expressed, have endured

more or less unchanged. Whether these changes are good or not so good is a matter for us to explore and discuss. The tensions between innovation and tradition make this a particularly challenging and exciting time to be a humanist or social scientist.

The responsibilities for sharing ideas with students, colleagues, communities and public policy-makers are richly complex. These tensions are evident in all our disciplines. They burst forward under new lights in startling interdisciplinary perspectives; they make audible new voices, and astonish us with fresh ways of knowing what we may have thought was already completely familiar to us. These galvanising tensions among divergent perspectives on our shared human condition are urgently evident today not just in our scholarly meetings, but also in the shape and make-up of the congress. The discourse in the media and everywhere on the public forum provides a context, giving shape, frame and direction to he matters we study. Discussions about political realities and resource allocation need to be fully informed with as wide a range of ideas as we can generate together.

Ontario Premier Mike Harris said recently: "We seem to be graduating more people who are great thinkers, but they know nothing about math or science or engineering or the skill sets that are needed." It's unfortunate such an influential person just doesn't get it. The good ideas of the great thinkers studying and working at our universities have built the

fabric of this country. They will continue to do so with all the rich knowledge deriving from letters, social sciences, mathematics and natural sciences. I know of no career, whether based primarily on skills or professional training, that does not need to be grounded in and supported by ethical judgment, knowledge, creativity, critical thinking and ideas.

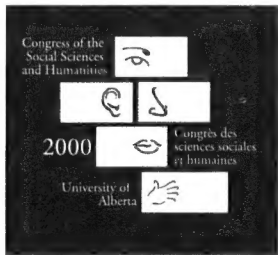
Humanities and social science disciplines are not what they used to be. I'm not saying they are less than they used to be. They remain alive and vital because they have changed. They preserve and renew knowledge about the past. They look forward to the future in informed ways. And each year

at the congress, we dwell most urgently on where we are in the present, what our tasks are and must be in the intensely charged here and now...

We'll need this energy in the months to come for, as we all know, the future of research and education in the liberal arts is far from secure, even though more than half all university students choose this as their path...

And so I need my fix of fresh ideas, good conversation, critical and creative vision from the Congress. The Congress provides irrefutable evidence that the humanities and social sciences community is strong, vigorous and more necessary than ever in the provision of opportunities to every citizen, young or old, in every region of Canada from coast to coast to coast.

Dr. Louise Forsyth is on faculty at the University of Saskatchewan. ■



folio letters to the editor

A RESPONSE TO DR. DOVICH'S STORY: ALBERTA GOV'T NOW POSITIONED TO "THINK BIG"

I read with great interest the article in your April 14 issue of *Folio* on the impact Dr. Norm Dovichi and Dr. Jianzhong Zhang have had on the cracking of the human genetic code ("U of A chemists unsung heroes in race to map human genome"). The efforts and accomplishments of these individuals is a testament to the quality of thinking and research underway at Alberta's universities.

It is indeed unfortunate nine years ago, when the two first made the discovery which subsequently led to a major breakthrough in genetics research, that both the provincial and federal governments did not provide funding support to their research due to what the researchers call a "Canadian inability to think big."

If that was the case, then I would like to point out times have changed.

Case in point, Dr. Dovichi and his colleagues recently received approval for \$576,000 in funding from the provincial government's 1999-2000 Intellectual Infrastructure Partnership Program (IIPP) competition to help purchase equipment to support the development of important

new technologies for biological and medical research. This provincial funding will serve to strengthen their initiative as it goes forward for federal support in the upcoming Canada Foundation for Innovation (CFI) competition, which will, in turn, hopefully help them attract more dollars for their research.

In approving the funding, the IIPP Review Team, the Alberta Science and Research Authority (ASRA) and the Minister of Innovation and Science, Dr. Lorne Taylor, all recognized the achievements and excellence of Dr. Dovichi and his colleagues, and as a result their proposal was the number one priority for funding in the 1999-2000 IIPP competition.

The Alberta government recognizes the vital role science and research play in the future of this province and this country. As proof of that, Premier Ralph Klein recently created a \$500 million endowment fund to support science and engineering research at Alberta's universities. This is a sister fund to the Alberta Heritage Foundation for Medical Research, which was established in 1980 and is currently worth more than \$1 billion. These endowments are in addition to the \$95 million a year the

provincial government invests in science and research in Alberta.

Overall, the provincial government supports and applauds the ongoing efforts of individuals such as Dr. Dovichi and Dr. Zhang, and wishes them all the best in their future research and in serving as an inspiration for the future generations of Alberta researchers and scientists.

In closing, I would add that as we move ahead into the 21st century, Albertans all need to "think big" and be as persistent as these researchers have been in making their discoveries and sharing their ideas—our future depends on it.

Sincerely,
Val Mellesmoen
Director of Communications,
Alberta Innovation and Science

LIBRARIANS FILE BACK

We librarians have long endured the unfair glasses, bun, sensible shoes and "shhh!" stereotype of our profession. However, I was dismayed to see an OA Books advertisement (May 12th, *Folio*) perpetuating the same negative stereotype... in a publication directed to our academic colleagues. Would an ad encouraging stu-

dents to look for answers on the Web and ignore their absent-minded, frizzy-haired professor have caught your attention before you published it? Both stereotypes are false and ultimately damaging.

Librarians on campus are highly educated, technically skilled information professionals who participate fully in the academic life of the university. They teach, research, evaluate and communicate. They purchase millions of dollars in print and electronic resources to support research and teaching. They help to build the Web and help students to use it effectively. In fact, our users get out on the Web just to use the library and not the other way around!

We are not in competition with bookstores or e-commerce and we're usually pretty good sports. We simply wish to draw your attention to the inappropriate use of our university publication to perpetuate negative stereotypes of any group, in this case the academic librarians on campus.

Sincerely,
Jan Colter, President
Association of Professional Librarians:
University of Alberta

Children’s tumour bank housed at U of A laboratory

Researchers from across North America rely on its data

By Phoebe Dey

Three freezers housed in the southwest corner of the University of Alberta campus look ordinary enough. But open up those containers, all set at a precise -80° C, and you’ll find more than 1000 Wilms tumours—the largest such collection in the world.

Founded in 1988 by the Faculty of Medicine and Dentistry’s Dr. Paul Grundy, the tumour bank is generating research interest from around the world.

“One of my objectives when I first came here was to develop a bank for basic and translational research,” said Grundy, an Alberta Heritage Foundation Medical Foundation researcher. “Now, basically every children’s centre in North America is coming to us, but it’s available to anybody in the world.”

Wilms tumour is a childhood cancer that affects the kidneys. It is the fourth or fifth most common pediatric cancer and the main kind of kidney cancer. Long-term survival rates for children with Wilms

tumour is about 85 per cent, said Grundy, who works out of the Cross Cancer Institute.

“But if you’re a parent of that child who falls in the other 15 per cent, research is important,” he said.

Grundy’s laboratory is using that tumour bank to analyze the relevance of chromosomal changes of children with the disease. When doctors remove the tumour from the child, they freeze it and send it via Federal Express to Edmonton. Grundy has heard his American colleagues joke that at least there is no concern about keeping the tumours frozen, since they will be in frigid Alberta.

“Some of the people are sending stuff to Edmonton without even knowing where it is,” he said.

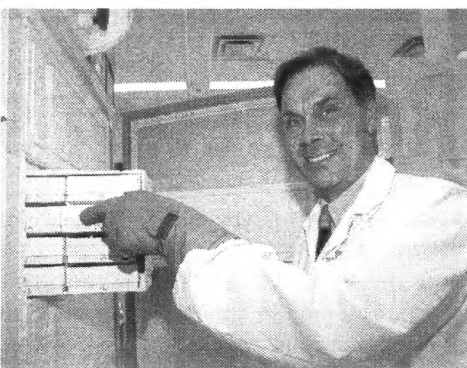
When doctors ship the tumour, they also include what’s left of the removed kidney, blood, serum, urine and the parent’s DNA, which allows researchers full access to the patient’s history. Since the

growth itself is so large, it gives scientists a chance to study the whole tumour rather than just an extracted tissue, which is often the case.

“We know the family history, race, age and outcome of treatment, so investigators can apply for any kind of study,” said Grundy, whose laboratory has sponsored more than 30 studies.

One such study was conducted at Johns Hopkins University in Maryland, where researchers were able to learn about the inactivity of certain genes. Those results have far-reaching effects on genetics, said Grundy.

He also knows the bank will lead to a greater understanding of the genetics of Wilms tumour, which will help physicians better manage the disease by deciding which patients need aggressive therapy and which don’t. After several years of therapy, some patients develop another form of cancer as a result of their treatment with chemotherapy and radiation.



Grundy’s laboratory, home to the Wilms tumour bank: “Now, basically every children’s centre in North America is coming to us.”

Clinical trials are ongoing to determine if lower doses of chemotherapy and radiation can be used.

“For Edmonton to be home to this biological science bank is very important,” said Grundy.

Those definitely aren’t just ordinary freezers after all. ■

Consolidation of research programs creates \$30M fund

By Lucianna Ciccocioppo

Scientists and researchers in Alberta can now access a broader pool of funding thanks to a more efficient process and the consolidation of two provincial funds.

Alberta’s new \$30 million Innovation and Science Research Investments Program merges the government’s Intellectual Infrastructure Partnership Program (IIPP) and the Science and Research Fund. The creation of Alberta Innovation and Science in 1999, which brought all the government’s research funds and activities under one department, helped seal this consolidation.

The new program will channel funds under three streams: research infrastruc-

ture; research application and technology transfer; and science awareness and promotion.

Similar to the two programs it replaces, grants awarded under the new program will be used to leverage other funding sources, including the federal government and the private sector.

Deadline for letters of intent for grant applications is June 30, 2000, with complete grant applications for 2000-01 due Sept. 15, 2000. For further information and grant forms, please view: www.innovation.gov.ab.ca ■

An ‘ounce of prevention’ is worth \$1.35M

By Ryan Smith

It is often said the best cure for a disease is prevention. That’s why the provincial government is supporting the research activities of the University of Alberta-based Alberta Centre for Injury Control and Research (ACICR)—to the tune of \$1.35 million, an increase of \$600,000 over last year.

Health and Wellness Minister Halvar Jonson made the announcement May 21.

Every year more than 1,400 Albertans die as a result of injury, and there are more than 30,000 injury-related hospitalizations in the province.

Liza Sunley, the ACICR’s education and communications coordinator, said the

money is appreciated because “there are so many demands placed on the centre now. We made a three-year business plan when we started [in September 1998], but our wish list has grown quickly. This money really helps us.”

Sunley said the money will be used to hire more staff and implement a new community-grant program, which will kick-start local injury-prevention programs around the province.

In particular, the centre will continue to focus its efforts on the prevention of traffic-related injuries, farming injuries, suicide, injuries in the aboriginal community and fall-related injuries. ■

Nursing pioneer inspires new generation with bursary

Recipient says bursary means more than financial help

By Geoff McMaster

Janine Landry has yet to meet the woman responsible for her nursing bursary, but reading about Alyce Rowswell Schroeder is a lot like looking in the mirror, says the fourth-year student.

“She was quite the woman, and I see a lot of resemblance in her,” says Landry. “She took nursing very seriously and obviously cared a lot about people...I just thought, ‘Wow, someone else thinks about nursing the way I do.’”

Landry was the recipient of the \$500 Alyce Rowswell Schroeder Bursary last year, after Schroeder donated \$10,000 to establish the annual award. It may not seem like a lot of money, but it was enough to pay for some of Landry’s textbooks.

The bursary was particularly welcome since she spent many years supporting her former husband’s career before finally deciding to pursue her childhood dream. She had used up all her financial resources, she says, and had to take out student loans, so she’s learned to stretch every dollar.

“But the bursary goes beyond [the monetary value],” she says, expressing her disappointment that Schroeder was unable to attend the award ceremony and witness her considerable gratitude. “This lady cared enough to say, ‘I want to help some student’... I think she’s wonderful.”

Schroeder began her career in Edmonton in the 1920s, training at Misericordia Hospital. She went on to do graduate work in New York City, specializing in operating-room techniques and management, but it was in Cleveland, Ohio, where she really made her mark. In the mid-1950s, along with open-heart surgery pioneer Dr. Donald B. Effler, she helped establish the world’s first post-operative intensive care unit for cardiac patients.

They were not easy days; heart surgery was largely experimental then and many of the initial operations ended in failure. Caring for patients took immense compassion and courage.

“I just think that’s pretty incredible,” says Landry, “and when you think it’s the mid-1950s, to do that as a woman, you have to think, ‘Way to go.’”

“Years and years ago, you were either a really good nurse, or you were in the wrong profession,” says Schroeder from her home in Edmonton. According to Landry, things have not changed that much today.

“She worked weekends and holidays and everything to assist with critical surgeries,” she says. “I guess I see myself that way as well. When it feels right, it’s not only a career but a vocation.”

Landry says she couldn’t be more certain of her own calling. When she

convocates this June, she’ll be the “happiest person” in the auditorium, she says. She’s already working at Grey Nuns Community Hospital, and not a day goes by that she doesn’t wake up eager to go to work.

Schroeder believes it’s important to do what little she can to help today’s nursing students, who face so many professional and financial pressures. It may be a whole new era in nursing, but today’s students are no less dedicated than they’ve always been, she says.



Alyce Schroeder



Janine Landry

PET technology will revolutionize cancer treatment

By Geoff McMaster

U of A doctors at the Cross Cancer Institute will soon be able to detect cancer earlier and more accurately with a revolutionary technology called positron emission tomography (PET).

A form of nuclear medicine, the PET scanner measures irregular chemical changes in body tissue before they can be detected by either MRI (magnetic resonance imaging) or CAT scan (computerized axial tomography), often avoiding the need for invasive surgical procedures.

"We're extraordinarily excited. This is something I've worked on for 13 years," says oncology professor Dr. Sandy McEwan. "It basically means the patient goes from being eligible for surgery to not eligible, which saves a lot of hassle for the patient and the family. You can go straight into chemotherapy, which is much more likely to help you than an unnecessary surgical operation."

The scanner reads small, safe amounts of specific radioactive tracers, called radiopharmaceuticals, administered be-

forehand to patients. The reading is then translated by the scanner into high-resolution, three-dimensional images of tissue function, highlighting the presence of tumours and nodes. PET scanners have also proven highly accurate in testing for heart disease.

While the technology has existed for almost 30 years, and there are hundreds of scanners now in use around the world, there are currently only two in Canada—in Hamilton, Ont., and in Sherbrooke, Que., says McEwan. The U of A's new scanner will make the university the only PET centre in the west.

The purchase of the technology was made possible after a private donor pledged an undisclosed amount to purchase basic hardware. The system will cost a total of \$6.5 million. Some other sources of funding include the Alberta Cancer Board (\$1 million), the Alberta Science and Research Authority (\$2.2 million) and General Electric (\$800,000). Considering the first proposal for the scanner was submitted 24

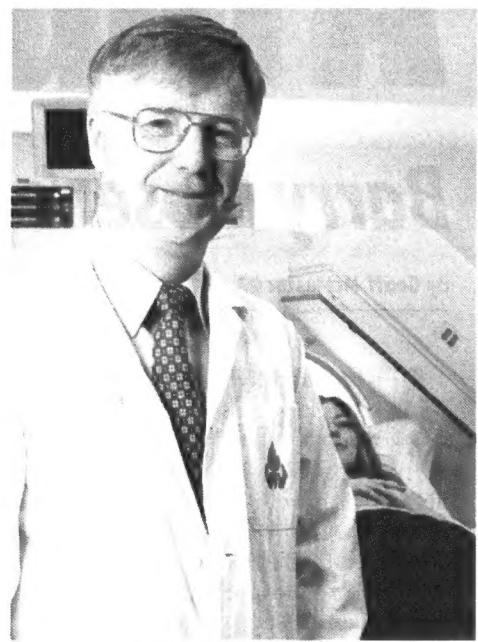
years ago, McEwan says the arrival of the machine is a momentous occasion.

"What we have to do is show Alberta Health that it's going to make a difference—clinically and financially," he says. PET technology has demonstrated savings elsewhere of between \$5,000 and \$20,000 per patient.

According to pharmacy professor Dr. John Mercer, the PET centre will initially be used mainly for research until clinical applications can be convincingly demonstrated. He says the U of A has had the expertise to run the centre for years and researchers here have been "drooling" over scanners at other institutions.

"It's like we've suddenly been given this miraculous tool that will enable us to do the things we've dreamed about but have been denied because we haven't had the technology."

While the new scanner will be used primarily for cancer research and treatment, it may in time also be applied to patients with neurological and heart diseases. ■



U of A oncology professor Dr. Sandy McEwan at the Cross Cancer Institute, site of Western Canada's first and only positron emission tomography (PET) centre.

Engineering precinct taking shape on campus

Two buildings will foster twin pursuits of teaching and research

By Geoff McMaster

Dr. Michael Brett can barely contain his excitement when talking about the new Electrical and Computer Engineering Research Facility (ECERF) now under construction just west of the mechanical engineering building and scheduled to open in August 2001.

"We're going to have the best micro-fabrication facility in Canada, probably one of the five best in North America," he says.

Brett is already a leader in his field, figuring out how to manufacture on the smallest possible scale what he calls "crazy films"—thin wafers as small as a micro-metre thick used for everything from humid-ity sensors to thermal barriers to resonators.

His crazy films are one of the hottest frontiers in the new knowledge-based economy and may one day help build "machines" barely detectable by the naked eye but able to perform tasks based on simple principles of diffusion, osmosis, electrostatics or magnetics.

These films may one day form part of a micro-machine capable of travelling through the blood stream, locating cells that have faulty DNA and repairing them. And that's just one possible application. Given the space and the right tools, there's no telling where the future will take the work Brett and his colleagues are doing.

The five-storey ECERF will also provide state-of-the art areas for telecommunications, information technologies, computer/software engineering, advanced laser applications and micro-electronics.

The 13,000-square-metered building will house 55 faculty members, 225 graduate students, 35 postdoctoral fellows and research associates, and 20 associated staff. Plans for a sixth floor to accommodate TRILabs, a major telecommunications spin-off company originally created by the engineering faculty, are also being explored.

The \$73 million total construction project now underway also includes a six-storey Teaching and Learning Complex containing classrooms, lecture theatres, computer laboratories and undergraduate instructional laboratory space. All engineering student services will be consolidated in the new space, as will the Engineering Co-op Centre.

The support for all of this has been, and continues to be, one of the most challenging fundraising drives the university has ever faced, and Dean of Engineering David Lynch has been spearheading it every step of the way.

"It's been a very exciting time to be dean of engineering, and to see two major projects both come to fruition," says Dr. Lynch, adding many facilities will be "as near as we can determine the best in the country." He says the two buildings will be "directly linked to the province's strategies in terms of accelerating the knowledge-based activities in Alberta."

The province is the biggest contributor to the project, having committed a total of \$42.4 million. The university has pitched in about \$15 million and the Canada Founda-



Dr. Michael Brett, shown here with his micro-fabrication research team, can't wait to move into his new digs in the Electrical and Computer Engineering and Research Facility.

tion for Innovation about \$4.6 million.

Private and corporate donations amount to about \$6.5 million, the largest portion of which (\$4.1 million) is from an anonymous donor. TransCanada Pipelines Ltd. contributed \$1 million, Suncor \$250,000 and Gerald J. Maier \$1 million.

Maier, a U of A alumnus (petroleum engineering) who last year received an hon-

orary degree from the University of Alberta, is vice-chair of Nova Corp. and former chair and CEO of TransCanada Pipelines.

"It's what I would call giving back to a university that did a lot for me," says Maier of his gift. "Had it not been for the University of Alberta and what I gained there, I might have had a totally different course in my life."

Breast cancer vaccine fast-tracked in the U.S.

Early prototype developed at U of A

By Geoff McMaster

A breast cancer vaccine originally developed at the University of Alberta has been given fast-track status by the U.S. Food and Drug Administration (FDA). Theratope, now in Phase 3 clinical trials, is the product of Biomira Inc., a company spun-off from the university in 1984.

The fast-tracking designation, reserved for drugs that show strong promise of treating serious or life-threatening conditions, means results of clinical trials will be reviewed on a rolling basis by the FDA rather than all at once at the completion of the study. If the results are strong, the vac-

cine could be commercialized as early as 2002, says Biomira's senior vice-president of research and development and chief scientific officer, Dr. Michael Longenecker.

"We're very excited about it," he says. "Instead of taking a year or more, it would only take six months to get approval to sell the compound [after completion of the trial]. It's very important for getting the product to market as fast as possible."

Longenecker says the third-phase clinical trial began late last year and is scheduled to run for four years. It's the largest of its kind in history, he says, involving

about 950 patients in 120 clinical sites around the world, including North America and Europe, Australia and New Zealand.

The Phase 2 trial demonstrated a median survival rate of about 26 months for breast cancer patients who took the vaccine, compared to nine months for those in the control group. The patients were those for whom chemotherapy had failed.

Longenecker, who retired from the U of A two years ago to work for Biomira full time, began working on cancer vaccines at the university in the early

1970s and achieved encouraging results in the early '80s, he says. He and his associates were the first to synthesize a cancer antigen, a substance that invokes the production of antibodies when injected into the body. "We had shown we could actually cause the rejection of very aggressive cancer in mice," he says.

Biomira was incorporated in 1985 and began clinical trials with Theratope in the early '90s. The formulation has been modified somewhat since then, says Longenecker. ■

A biblical wonder for

Barry Moser's powerful illustrations capture the human-centred

By Geoff McMaster

As he carefully turns each page with a white protective glove, John Charles is moved to tears by the images before him. The Special Collections librarian is examining the library's latest treasure—a \$15,000 bible illustrated by Barry Moser, one of America's most renowned woodblock artists.

Absent in Moser's work are the idealized, Aryan figures of the Sunday-school or stained-glass variety. The characters depicted here are

refreshingly human, the context earth-bound and sometimes disturbing. Many of the scenes echo the spiritual isolation and genocidal devastation of the 20th century.

Above all, the action is driven by human, and often minor, characters.

Divine intervention is relegated to the background.

"The most striking thing about the illustrations is they are drawn in many cases from people the artist knows," says Charles. The figure of Jesus is modeled after a Manhattan chef.

"Everybody is a real

person—nothing glamorized or stylized. It's a very powerful book."

Published in limited edition last fall at a cost of \$2 million (the U of A has No. 57 of 400 which is the first to be purchased by a Canadian university), the Pennyroyal Caxton Bible marks the first time both testaments have been illustrated by a single artist since Gustave Doré's version of 1865. Released late last year, it also has the distinction of being the only such bible of the 20th century, and what Juanita Dugdale of *Print* magazine calls a "tour de force" of printing craftsmanship.

In an e-mail to Charles, Moser explains his approach: "My intention was to make the images personal...I wanted people to open this bible and see themselves reflected in the faces of the ordinary people that are pictured there—people who are not well scrubbed and pious, but flawed like most of us."

All of the publishing details and design, from typesetting to selection of

paper, are Moser's. The images are cast in a polymer resin, cheaper and more widely available than boxwood engraving blocks, and pressed directly onto a paper specially manufactured in Germany from 100 per cent cotton rag. The two volumes are then bound with a vellum cover.

Moser spent four years producing the 231 engravings, an enormously difficult task and a long-awaited personal odyssey. The 58-year-old artist, publisher, designer and topographer originally from Tennessee—best known for his celebrated editions of *Moby Dick*, *Frankenstein*, *Huckleberry Finn* and *Alice in Wonderland*—was a fundamentalist preacher for a short spell in his teen years and had dreamt of doing a project like this for most of his adult life. As he matured, he became profoundly disenchanted with "churches, catechisms, dogmas and doctrines," he longed for a chance to make the Bible more accessible to modern age sensibilities.

In 1985 he found a financial backer in bibliophile Bruce Kovner, owner of the Caxton Corporation, but didn't take the

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—Illustrator
Barry Moser

John Charles with
Special Collections'
new Pennyroyal
Caxton Bible



Earlier renderings of the
Sacrifice of Isaac might
show an angel
preventing Abraham
from striking Isaac.
"Here there's no such
thing evident—
you just see the two
human figures,"
says Dr. David Gay.



Abraham and Isaac



The Crucifixion

the new millennium

drama of Scriptures

financier up on the offer until about five years ago when the millennial deadline began pressing. What followed, says Moser, was an emotional and intellectual struggle with each and every image.

For the opening illustration of Adam and Eve in the Garden of Eden, for instance, he briefly considered making the couple African, originating in what is now widely regarded as the birthplace of the human race. In the end he decided against it, however, concluding that since the Old Testament is Jewish literature, the figures envisioned by its writers were likely Jewish.

In the estimation of Dr. David Gay, who teaches a second-year course on the Bible and literature, the updated aesthetic of Moser's work shines through with brilliant clarity.

"It's a powerful evocation of the 20th century—I'm just stunned by it," he says. "It celebrates humanity and diversity but also makes you confront inhumanity. And of course the Bible itself does that."

Gay is particularly struck by the representations of "human agency, human response and human relationship." He points, for example, to the Sacrifice of Isaac, which in earlier renderings might show an angel preventing Abraham from striking Isaac. "Here there's no such thing evident—you just see the two human figures.

"Moser works in a black and white ink woodcut style but [the engravings] almost look like documentary photographs...it's not that he's trying to rival the photograph, by any means, but he knows the photograph is part of our experience."

The artist's gaze is firmly grounded in the contemporary age, with its focus on relationships of race, gender, class, sexuality and power. Some of the images resonate with the horrors of the 20th century, evoking the Holocaust or other instances of genocide. One illustration of what looks like a bombed out city in *Ezekiel* reminds one of news reels of the Second World War, says Gay, or of more recent conflicts in Bosnia and Rwanda.

For Charles, acquiring this "monumental" book was a fitting way for the library to celebrate the dawn of a new millennium while adding to an already impressive collection of bibles, including a Geneva Bible of 1580 and a bible printed in the year of the King James, 1610. But the Pennyroyal Caxton Bible also celebrates the library's long-standing interest in the history of fine printing.

"We're interested in the book as both cultural and physical artifact," says Charles. "And we're also like a major laboratory for art and design. This bible speaks of a great artist but also of a great tradition, and that's so much what we're about here." ■

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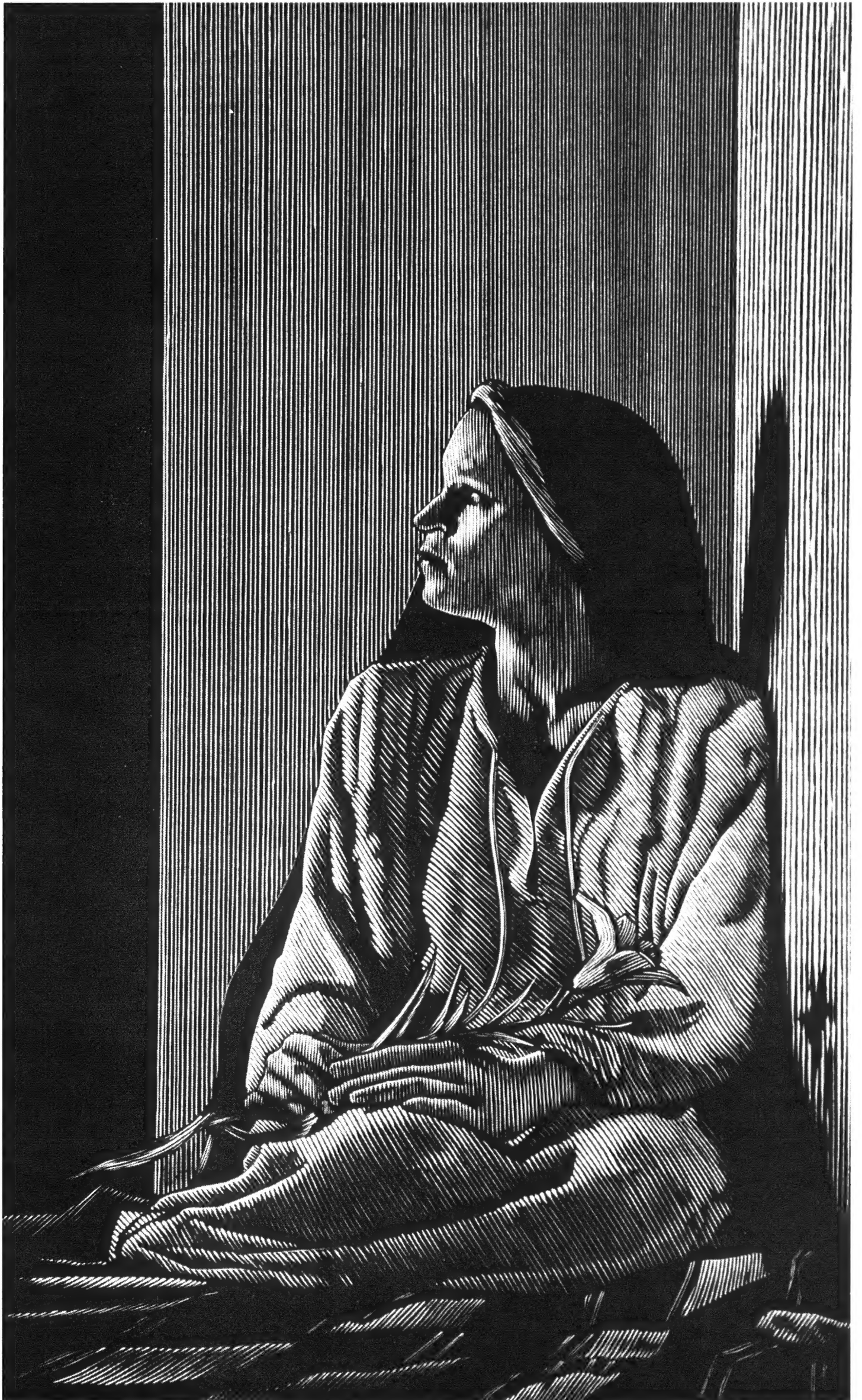
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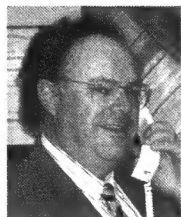
inhumanity."

—Dr. David Gay



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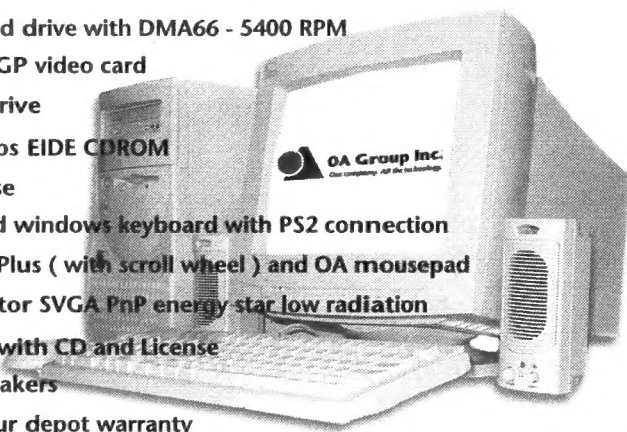
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positions

The records arising from this competition will be managed in accordance with provisions of the Alberta Freedom of Information and Protection of Privacy Act (FOIPPA).

The University of Alberta hires on the basis of merit. We are committed to the principle of equity of employment. We welcome diversity and encourage applications from all qualified women and men, including persons with disabilities, members of visible minorities, and Aboriginal persons.

ADMINISTRATIVE PROFESSIONAL OFFICER DEPARTMENT OF PUBLIC HEALTH SCIENCES

The Department of Public Health Sciences, Faculty of Medicine and Dentistry, invites applications for the position of Administrative Professional Officer (APO). Reporting to the department chair, the APO is accountable for the provision of efficient and effective administrative support for operations and management of the department and its teaching and research programs. Responsibilities include, but are not limited to: budget planning and analysis; contract management; overseeing student programs; coordinating, directing and assessing the performance of support staff; providing executive assistance to the chair, associate chair and executive committee; and analyzing, interpreting and implementing university, faculty, department and program policies.

This dynamic position, in an exciting department with a strong sense for the future, will be of interest to highly motivated, enthusiastic and energetic individuals who seek success through excellent leadership, organizational, analytical and communication skills, and who are recognized for their ability to work positively and effectively with individuals and groups, both in the diverse university community and externally.

Qualified applicants will have appropriate postsecondary education and substantial management and operations of related experience. Proficiency in information systems (MS Word, Excel and Access; University PeopleSoft: EPIC, PISCES and OA-SIS), as well as familiarity with academic, financial and human resources policies and procedures are essential. Administrative experience related to teaching, research programs, management of dry and/or wet lab facilities, information systems and university policy, is highly desirable.

This position has a salary range from \$36,000 to \$54,000 (under review), commensurate with qualifications and experience. Application deadline is June 9, 2000.

Letters of application, including a résumé and the names of three referees, should be sent in confidence to: Dr. Tom Noseworthy, Professor and Chair, Department of Public Health Sciences, Room 13-103 Clinical Sciences Building, University of Alberta, Edmonton AB, T6G 2G3.

ASSISTANT DEAN, ADMISSIONS FACULTY OF MEDICINE AND DENTISTRY

The Faculty of Medicine and Dentistry invites applications for assistant dean, admissions. The assistant dean, admissions reports to the associate dean, undergraduate medical education (UGME), and is responsible for overall leadership, general direction and vision for future developments in all aspects of the admissions for the Faculty of Medicine and Dentistry. The assistant dean:

- is responsible for student counseling in the area of admissions;
- acts on behalf of the associate dean, UGME in his/her absence;
- assists in the general planning and direction of medical and dental education; and
- chairs appropriate faculty committees pertaining to admissions.

The successful candidate will be an excellent mediator and communicator, who will act in an advisory capacity in matters related to university policies and procedures and their interpretation and application. The successful candidate will work effectively and cooperatively within the faculty and university, and externally with faculty admissions and advisers from other universities and colleges, and provincial and national organizations.

The administrative appointment is for five years in the first instance.

Applicants will submit a letter of interest with curriculum vitae and the names of three referees by **June 16, 2000** to:

Dr. D. Lorne J. Tyrrell, Dean
Faculty of Medicine and Dentistry
2J2.00 Walter C Mackenzie Health
Sciences Centre
University of Alberta
Edmonton, Alberta, Canada
T6G 2R7

ASSISTANT DEAN, STUDENT AFFAIRS FACULTY OF MEDICINE AND DENTISTRY

The Faculty of Medicine and Dentistry invites applications for assistant dean, student affairs. The assistant dean, student affairs reports to the dean and is responsible for providing leadership, general direction and vision for future developments in all matters pertaining to student affairs. The assistant dean:

- oversees the administration of all aspects of academic matters, programs, student counseling, and student awards and financing as they relate to student affairs;
- has overall responsibility for matters pertaining to medico-legal issues, student health issues and student well-being; and
- plays a major role in curriculum development and evaluation, and in the identification of innovative teaching and learning strategies.

The successful candidate will be an excellent mediator and communicator who will maintain student affairs issues at the forefront of medical education in Canada and North America. The successful candidate will work effectively and cooperatively within the faculty and university, and externally with provincial and national organizations.

The administrative appointment is for five years in the first instance.

Applicants will submit a letter of interest with curriculum vitae and the names of three referees by **June 16, 2000** to:

Dr. D. Lorne J. Tyrrell, Dean
Faculty of Medicine and Dentistry
2J2.00 Walter C Mackenzie Health
Sciences Centre
University of Alberta
Edmonton, Alberta, Canada
T6G 2R7

ASSISTANT / ASSOCIATE PROFESSOR RUMINANT NUTRITIONIST DEPARTMENT OF AGRICULTURAL, FOOD AND NUTRITIONAL SCIENCE

The Department of Agricultural, Food and Nutritional Science invites applications for a ruminant nutritionist position. The tenure-track appointment will be made at the assistant or associate professor level and will involve approximately 40 per cent research, 40 per cent teaching and 20 per cent extension.

The appointee will develop a world-class research and teaching program in ruminant nutrition. Areas of research may include, but are not limited to, ruminal function, digestive physiology, energy and protein utilization, lipid metabolism, forage and byproduct utilization, interrelations between nutrition and animal health, nutrient utilization and excretion, production efficiency, and effects of nutrition on quality of meat and milk. The activities of the applicant should contribute to promotion of production efficiency, sustainability and product quality, and to integrated research programs that promote the overall departmental mission of achieving excellence in teaching and research in efficient and sustainable production, processing and utilization of safe and nutritious food to promote health, within the context of the agri-food industry. Applicants must have an appreciation for the applications of molecular biology and microbiology in ruminant nutrition. The candidate will work cooperatively as a member of research teams within and outside the department. Successful applicants will be expected to seek extramural funding and publish information in refereed and non-refereed publications. Teaching responsibilities will include an undergraduate and a graduate course in ruminant nutrition as well as involvement in other nutrition and ruminant production courses as the need arises. Contributions in the emerging area of distance education are also expected. The candidate will possess a PhD in ruminant nutrition or metabolism, evidence of excellent research potential, and have an appreciation of beef cattle production. Demonstrated leadership ability, excellent communication skills and a strong commitment to technology transfer are essential.

Next Folio is June 16 .Deadline is June 9.

The University of Alberta has excellent on-campus research facilities and equipment, including a state-of-the-art Molecular Biology and Biotechnology Centre, numerous specialized analytical laboratories, a large ruminant metabolism unit, a Dairy Research and Technology Centre, a research ranch which includes a herd of 500 beef cows, as well as bison, a 300-head feedlot and a 260-hectare wildlife unit (for further details see www.afns.ualberta.ca). Applications, including a statement of research and teaching interests and experience, curriculum vitae, and the name of three referees should be sent by July 31, 2000 (or until a suitable candidate has been found) to Dr. John Kennelly, Chair, Department of Agricultural, Food, and Nutritional Science, University of Alberta, Edmonton, Alberta, Canada T6G 2P5. This appointment is subject to final budgetary approval. For further information on this position contact Dr. Kennelly at (780) 492-2131 / (780) 492-4265 (fax), email chair@afns.ualberta.ca or visit our Web site at www.afns.ualberta.ca.

**EXECUTIVE ASSISTANT
TO THE DIRECTOR
COMMUNITY-UNIVERSITY PARTNERSHIP
FOR THE STUDY OF CHILDREN, YOUTH
AND FAMILIES**

The University of Alberta is seeking applicants for the position of executive assistant to the director of this partnership. The partnership is a new organization developed to promote collaborative work between community and university partners in research, in education, and in communication of research-based findings. The partnership has been established to ensure practitioners, researchers, policy makers and parents can all contribute to shaping the emerging research agenda in the community and at the university.

- The executive assistant will be accountable to the director and will assist in the following activities:
- strategic planning, policy development, problem solving and budgeting;
 - serving as an alternate to the director on sub-committees or other groups;
 - developing liaisons among potential collaborators in the community and the university;
 - gathering/analyzing information from university and community organizations about research goals/interests;
 - maintaining effective, multi-level communication with individuals and units across campus and in the community, including researchers, faculty members, administrators, members of community and parent groups, and government offices;
 - ensuring information of mutual interest is shared among the partnership in order to facilitate collaboration in applied research.

Knowledge of community-based programs for children and families, experience in research, experience in collaborative or inter-sectoral project work and a graduate degree in a related discipline are all highly desirable. Qualities expected of applicants include a deep interest in matters related to child and family development, an ability to communicate with individuals from a variety of organizations and backgrounds, and the ability to maintain the focus on the partnership's goals and vision.

This is a full-time trust position for a one-year term with the possibility for renewal. The position has a salary range from \$32,000 to \$44,000, commensurate with qualifications and experience.

Closing date for applications is June 9, 2000. Starting date is expected to be on or before July 1, 2000. Applicants should submit a résumé and letters from three referees. Application materials and inquiries should be directed to:
Joanne McKinnon, Health Sciences Coordinator
Health Sciences Office, 2-141 Clinical Sciences Building
University of Alberta
Edmonton, AB T6G 2G3
Phone: (780) 492-2861
Fax: (780) 492-2874
Email: joanne.mckinnon@ualberta.ca

**INTERNATIONAL RELATIONS
OFFICER (LATIN AMERICA/
CARIBBEAN)
UNIVERSITY OF ALBERTA INTERNATIONAL,
INTERNATIONAL RELATIONS**

The international relations officer (Latin America/Caribbean) (IRO) position reports to the director, international relations, in the office of University of Alberta International. The internationalization of the university is a key strategic initiative of the University of Alberta, and this position offers excellent opportunities for a well-motivated and enthusiastic individual to assist the university to expand relations and activities in Latin America and the Caribbean.

The position's primary responsibility is to facilitate the development and maintenance of relations and activities related to the strategic goals for the University of Alberta in Latin America and the Caribbean. The IRO participates in the strategic planning process for Latin America, is responsible for research on Latin American issues related to higher education, and researches and prepares papers on U of A activity in various Latin American and Caribbean countries. A main component of the duties of the IRO is the coordination of visits and missions to the region and organization of programs for visitors to the U of A from the region.

The officer will be required to work closely with the associate vice-president (international), senior administration, faculties and other administrative units within the University. The IRO will also be required to cultivate and maintain relations with universities, research organizations, government agencies, industry contacts, alumni and benefactors in Latin America and the Caribbean. Fluency in Spanish is a requirement of the position and knowledge of Portuguese would be an asset. Work and/or study experience in Latin America would also be an asset.

The candidate will require good communication skills and the ability to work in cross-cultural settings. Strong research, analytical and writing skills are necessary. Experience in coordination of overseas missions and ability to handle complex logistical planning is also necessary. Good computer skills are required.

This is initially a one-year contract (with extension subject to performance and funding availability) as an academic staff member of the University of Alberta, and the person is entitled to all university benefits for academic staff. Pay range is from \$35,000 to \$40,000 per annum.

Written applications accompanied by a résumé of qualifications and experience should be submitted by June 15, 2000 to Lori Constantine at University of Alberta International, 2-10 University Hall, University of Alberta, Edmonton, Alberta, Canada T6G 2J9; fax 780-492-1488.

notices

Please send notices attention Folio 400 Athabasca Hall, University of Alberta, T6G 2E8 or e-mail public.affairs@ualberta.ca. Notices should be received by 3 p.m. one week prior to publication

**RETIREMENT RECEPTION FOR
PROFESSOR PATRICIA HAYES**

Please join us to honour Professor Patricia Hayes on the occasion of her retirement as associate professor after 30 years with the Faculty of Nursing. A reception will be held June 5, 4:30 p.m. to 6:30 p.m., in the Saskatchewan Room, Faculty Club, 11435 Saskatchewan Drive, University of Alberta. A brief program will begin at 5 p.m. Tickets are \$12. To RSVP or to make a contribution towards the gift, please contact Leona Laird at 492-9801, e-mail leona.laird@ualberta.ca, or via campus mail to room 3-114 Clinical Sciences Building.

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**Back by popular demand:
Where in the world is *Folio*?**



Take a guess where Gail Sobat, education field experience associate, took a break to read *Folio* while at a conference recently?

The grand prize for this contest—and just in time for gardening season—is a copy of *Rhubarb: more than just pies*, courtesy of the award-winning University of Alberta Press. It's by Sandi

Vitt and Michael Hickman, with an introduction by former Chancellor Lois Hole.

Fill out this form and forward to 405 Athabasca Hall by June 9. One name will be drawn from all the correct entries. And please keep the photos coming!

My guess for the city and/or country is:

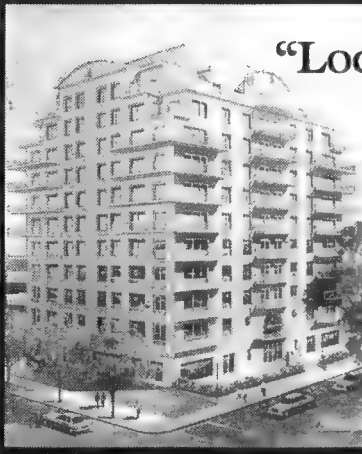
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RESEARCH DAY

Health Promotion: What Practitioners and Researchers Can Learn From One Another

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DR. C. JAMES FRANKISH

Acting Director, Institute of Health Promotion Research and
 Assistant Professor, Department of Health Care & Epidemiology, University of British Columbia

Take advantage of the opportunity to network with researchers, practitioners, students, and policy decision makers and explore current health promotion issues. This free event will include presentations and interactive discussions; a session on collaborating for Canadian Institutes of Health Research (CIHR) grants; and a light lunch.

Phone 492-8661, or e-mail chps.research@ualberta.ca to register by June 8th.

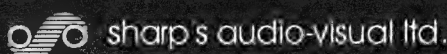


Saturday, June 10th, 2000
 9:00 - 4:30 p.m.
 Alumni House

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Thinking of ways to create a more equitable and respectful work or study environment on campus? Need support for employment equity or diversity projects? Apply for seed funding from the Employment Equity Discretionary Fund.

Application deadline: June 30, 2000

Applications will be available **June 1, 2000**. For additional information, please contact Catherine Anley, Office of Human Rights, 492-9733 or visit the web site at: <http://www.ualberta.ca/~hurights>.

Implementing **Opening Doors**, the University's employment equity plan.

laurels

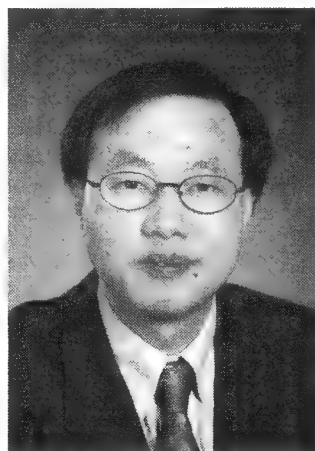
MARTHA COOK PIPER RESEARCH PRIZE

Prof. Tim Caulfield, research director of the Health Law Institute and associate professor in the Faculty of Law and Faculty of Medicine and Dentistry, and Dr. Chris Le, associate professor in the Department of Public Health Sciences, Faculty of Medicine and Dentistry, are the recipients of the Martha Cook Piper Research Prize for 2000.

Caulfield has an active career in a variety of health law areas for which he has received national and international recognition. He researches the legal ramifications of health reform in Canada, investigates

the legal, ethical and policy issues associated with the "genetics revolution" and biotechnology, and participates on national policy bodies such as the Canadian Biotechnology Advisory Committee and the Royal Society of Canada's expert advisory committee on food biotechnology.

Le is the producer of the remarkable breakthrough method for measuring DNA damage with unprecedented sensitivity (a 100,000-fold increase over the current leading-edge method). This approach can measure, for the first time, DNA damage at levels of radiation exposure as low as those commonly used in clinical practice. This work was the basis of his publication in *Science* in May 1998. Le is also internationally renowned for his extensive work to significantly improve the analysis of arsenic in drinking water and food. He was one of the U of A's two Steacie Fellowship winners this year, given to outstanding scientists early in their careers.



Dr. Chris Le



Prof. Tim Caulfield

The Martha Cook Piper Research Prize was established to commemorate the significant contribution Piper made to the research community while she was vice-president (research) and vice-president (research and external affairs) at the University of Alberta between 1993-1996.

The prizes recognize faculty who are at the early stage of their careers, enjoy a reputation for original research and show outstanding promise as researchers.

KILLAM ANNUAL PROFESSORS

The University of Alberta is pleased to announce the eight Killam Annual Professors for 2000-01:

- Dr. Martin Cowie, chemistry
- Dr. Murray Gray, chemical and materials engineering
- Dr. Susan Hannon, biological sciences
- Dr. Herbert Northcott, sociology
- Dr. Linda Pilarski, oncology
- Dr. David Sego, civil and environmental engineering
- Dr. Dick Sobsey, educational psychology
- Dr. Diane Taylor, medical microbiology and immunology

The Killam Annual Professorships were established in July 1991, from a bequest made by Izaak Walton and Dorothy Killam to the University of Alberta. The award is based on scholarly activities such as teaching, research, publications, creative activities, presented papers, supervision of graduate students and courses taught, as well as service to the greater community.

talks

Submit talks and events to Brenda Briggs by 9 a.m. one week prior to publication. Fax 492-2997 or e-mail at public.affairs@ualberta.ca.

DEPARTMENT OF CELL BIOLOGY

June 5, 9:30 am

Dr. Suzanne Pfeffer, Professor and Chair, Department of Biochemistry, Stanford University School of Medicine, "Molecular Analysis of Receptor Trafficking." Seminar room 5-10 Medical Sciences Building.

DEPARTMENT OF CHEMISTRY

June 26, 11:00 am - 12:00 pm

Co-hosted by Department of Biological Sciences. Dr. Peter Zuber, Oregon Graduate Institute of Science and Technology, "Role of *Bacillus subtilis* Clp proteins in transcription initiation." Room M-149 Biological Sciences Building.

June 26, 3:00 - 4:00 pm

Co-hosted by Department of Biological Sciences. Dr. Michiko M. Nakano, Oregon Graduate Institute of Science and Technology, "A two-component regulatory system controls transcription in response to oxygen availability in *Bacillus subtilis*." Room M-149 Biological Sciences Building.

DEPARTMENT OF COMPUTING SCIENCE

May 31, 11:00 am

Dr. Lila Kari, Department of Computer Science, UWO, "How do cells compute?" Room 103 V-Wing. Co-sponsored by MACI, AHFMR and iCORE.

June 6, 2:00 pm

Dr. Anne Condon, Department of Computer Science, UBC, "DNA Computing on Surfaces." Room 103 V-Wing. Co-sponsored by MACI, AHFMR and iCORE.

DEPARTMENT OF MEDICINE

May 26, 2:30 pm

Ryan J. Perry, thesis defense seminar, Masters of Science in Experimental Medicine, "Effects of *ex vivo* and *in vivo* oxidation on high density lipoprotein structure and function." Room 452 HMRC.

DEPARTMENT OF RURAL ECONOMY

May 29, 9:00 am

Kwamena Quagrainie, PhD student, "The Impact of Value Adding on Western Canadian Agriculture." Room 550 GSB.

June 9, 10:00 am

Murray Fulton, Professor, Department of Agricultural Economics, University of Saskatchewan, "Challenges for Cooperatives in the Next Decade." Room 550 GSB.

FACULTY OF LAW

September 14, 12:00 noon

Bowker Lecture. A public lecture delivered by Dr. Ian Ward, Professor of Law, University of Newcastle, UK. Everyone welcome. Refreshments will be served. RSVP to: Deansec@law.ualberta.ca or phone 492-5590.

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events

CONFERENCE

CANADIAN SOCIETY FOR PHARMACEUTICAL SCIENCES

June 8 – 10, 2000

The Faculty of Pharmacy would like to announce the CSPS conference, "Technology Transfer: From Bench to Market," happening in Vancouver, BC. Please check the conference Web site for details at: www.pharmacy.ualberta.ca/CSPSConferenceSite/

16TH ANNUAL STUDENT ADVISERS' CONFERENCE

June 1, 8:30 – 4:00 pm

"The Tangled Web: Maintaining Human Touch in a High Tech World." The Students' Union and Ombudservice invite you to attend a forum for the gathering of information and discussion for student advisors and service providers. In the Timms Centre. Registration/information: 492-4689 or www.su.ualberta.ca/sac/.

INTERNATIONAL NORTHWESTERN CONFERENCE ON DISEASES IN NATURE COMMUNICABLE TO MEN (INCNDNM)

July 30 – August 2, 2000

The 55th annual INCNDNM takes place at Colorado State University, Fort Collins, Colorado. Program scope: viral, Rickettsial, bacterial, parasitic or prion-related diseases acquired from natural sources, including animals (wild or domestic), contaminated water or food supplies, arthropod vectors, etc. For more information: Errol Prasad, Clinical Virologist, phone 407-8975 or e-mail esp@bugs.uah.ualberta.ca.

EXHIBITION

EXTENSION GALLERY

May 23 to June 23

Susanne Hertwig-Jaksch, "Final Visual Presentation for the Certificate of Fine Arts in Ceramics." Reception: May 26, 7:00 pm – 9:00 pm, artist in attendance. Gallery hours: Monday - Friday, 8:00 am - 4:00 pm. Second floor, University Extension Centre, 8303 - 112 Street. Info: 492-3034.

FAB GALLERY

May 23 to June 11

"Lines of Site: Ideas, Forms and Materialities." Curated by Desmond Rochfort with Ryoji Ikeda. An exhibition of Print Works from the Division of Printmaking, Department of Art and Design. Gallery hours: Tuesday to Friday, 10:00 am – 1:00 pm, 2:00 pm – 5:00 pm; Sunday, 2:00 pm – 5:00 pm. Closed Monday, Saturday, statutory holidays. 1-1 Fine Arts Building.

MCMULLEN GALLERY

May 20 to August 20

"Art and Personal Meaning: Community Selections from the University of Alberta Art and Artifact Collection." Developed by Museums and Collections Services, University of Alberta. McMullen Gallery, east entrance, University of Alberta Hospital, 8440 - 112 Street. Hours: Monday to Friday, 10:00 am – 8:00 pm; Saturday to Sunday, 1:00 pm – 8:00 pm. Contact: Jim Corrigan at 492-0779.

MUSIC

DEPARTMENT OF MUSIC

May 29, 8:00 pm

Congress 2000 recital: Stéphane Lemelin, piano. Program will include Fauré's *Nocturne No. 5 in B-Flat Major, Op. 37*, Ravel's *Le Tombeau de Couperin*, and Schubert's *Sonata in C Minor, D. 958*. Admission: \$5/ student/senior, \$10/adult. Convocation Hall, Arts Building.

May 30, 8:00 pm

Master of Music recital: Leônora Rondeau, piano. Free admission. Convocation Hall, Arts Building. Rescheduled from April 17th.

THEATRE

KAASA THEATRE

May 28, 29, and 30 – 7:30 pm

The University of Alberta, John Dossetor Health Ethics Centre will present the play, "A Child on Her Mind," in the Kaasa Theatre (11455-87 Avenue, Edmonton, Alberta). This play (based on research with mothers and clinical experiences) examines issues about mothering, ethics, and reproductive technology

gies through the characters of six women situated in a hospital's obstetrical unit. Admission is \$10.00/ person, which includes the opportunity to discuss issues arising from the play with actors, Dr. Jeff Nisker (Author) and Dr. Vangie Bergum (Producer) following the 90-minute production. Tickets will be sold at Tix On The Square (780-420-1757) and the John Dossetor Health Ethics Centre (780-492-6676).

WORKSHOPS

THE APO LEARNING IMPLEMENTATION COMMITTEE IS PLEASED TO PRESENT:

June 7, 9:00 am – 4:00 pm

"Transition Management Planning: The Key to Successful Change Management." Facilitators: Shirley Leonard and Fran Trehearne. When organizations engage in Transition Management Planning, the results are more productive workplaces, healthier employees and increased chance for successful managed change. 219 CAB. No charge

June 14, 9:00 am – 12:00 pm and 1:00 pm – 4:00 pm

"An Effective Discipline Process." Facilitator: Gail Schmalz. Over two, three-hour sessions, Gail will provide an overview of the progressive discipline model relating to our current environment and NASA collective agreement. Focus will be given to NASA and Workplace Reps roles in the discipline process. 219 CAB. No charge

June 20, 12:00 pm – 4:30 pm

"Facilitation Fundamentals: How to plan and manage meetings." Facilitator: Indira Haripersad. Topics covered will include: the role of the meeting facilitator, basic facilitation tools, planning and managing a meeting including tips for managing the group. 219 CAB. No charge.

June 16, 9:00 am – 11:00 am

"Current Initiatives in Employment & Compensation." Facilitators: Herb King and Cynthia Caskey. 219 CAB. No charge.

Seating is limited! To register for any of the above or for more information, contact: Karen Wilson, 7126 or karen.wilson@hrs.ualberta.ca.

MACI

MACI (Alberta's Multimedia Advanced Computational Infrastructure) is a collaborative project of the Universities of Calgary, Lethbridge, Alberta and Manitoba. University of Calgary researchers using, or interested in using, computational resources in their research may be interested in attending the following sessions at the University of Alberta.

May 26, 9:00 am – 4:30 pm

Visualization Tool Kit

Instructor: Dr. Mark Green. General Services Building 619, University of Alberta

Fee: \$50 for academic institution personnel, \$100 for non-academics

June 13, 8:30 am – 5:00 pm

Video Servicing in Education: Content and Technical Models

This one-day session is designed to provide an overview of video serving issues relevant to educational contexts. It will cover some of the ways video serving is being used in education, possibilities for accessing and managing content, and a range of video serving systems and their associated institutional costs. Organized by Netera Alliance. Lunch provided. This is a videoconference with locations in Calgary and Edmonton.

Edmonton: Northern Alberta Institute for Technology, Room: H003 (main campus). **Calgary:** Southern Alberta Institute for Technology, Room: T304 (Thomas Riley Bldg)

Fee: None, but spaces are limited and must be confirmed. Please RSVP to Janelle Ring, preferably by e-mail at jring@ucalgary.ca or phone (403) 220-2012 and specify the location you will attend.

June 27, 10:00 am – 11:00 am

MACI Computational Resources at the U of C

Faculty members and graduate students interested in finding out how their research can be supported by advanced computational resources are encouraged to attend an upcoming orientation session, presented by MACI and Netera Alliance. Presenter: Doug Phillips, Senior Computational Science Consultant, IT, University of Calgary. Cyberport, Learning Commons, 5th floor Biosciences, University of Calgary.

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June 7th, 1:00 to 4:00
2-111 Education North

In celebration of the time and effort that many of our University of Alberta colleagues have invested in developing technology enhanced materials for teaching and learning.

Explore demonstrations of faculty work, with the authors, in the ATL Production Studio.

Discuss issues with colleagues who have been through the experience.

- Time and resource commitments
- What resources are available on and off campus
- Which strategies work, and which ones don't!

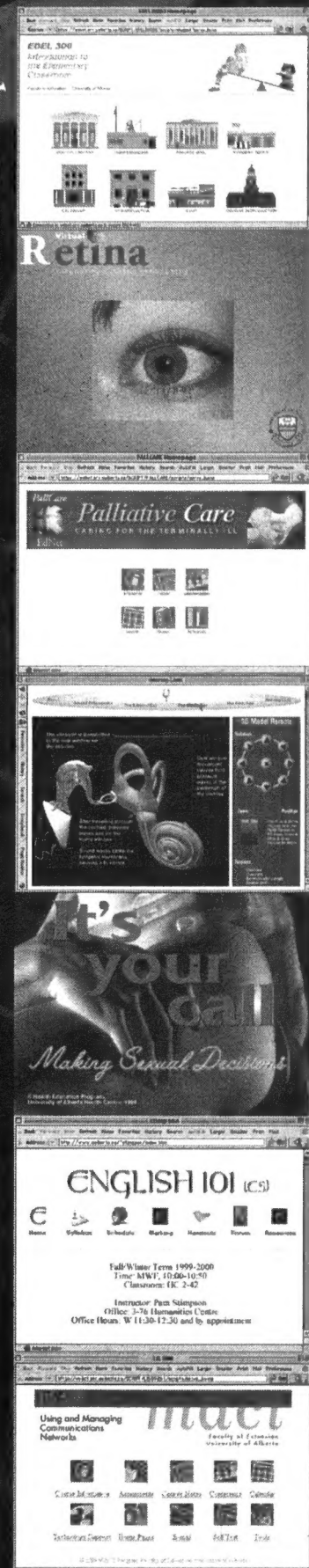
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iCORE's grant programs are building world-class research teams in Alberta in information and communications technology.

Establishment Grants

Chair and Professorship Establishment (CPE) Grants are available to create positions for chairs or professors with excellent research records in information and communications technology. The grants cover the salary of the team leader brought to Alberta along with the salaries of associated research team members including other professors, research fellows, postdoctoral fellows and graduate students. They may also cover research operating and equipment costs. The requested funding may range from \$200,000 to over \$1,000,000 per year for periods from two to five years.

Research Grants

Research Grants are similar to the establishment grants described above, but are intended to help outstanding researchers currently in Alberta build world-class research teams. Research Grants do not cover the salary of the Alberta team leader, but do cover the salaries of recruited associated research team members including professors, research fellows, postdoctoral fellows and graduate students. They may also cover research operating and equipment costs. The requested funding may range from \$50,000 to \$500,000 per year for periods of one to five years. Total awards will normally be a minimum of \$200,000.

In support of these central initiatives, iCORE operates two additional grant programs.

Graduate Student Fellowships

Funding is available to support new Alberta graduate students in computer science, electrical and computer engineering, and other ICT-related areas, who hold NSERC Post Graduate Scholarships. Specifically, for recipients of NSERC PGS-A scholarships, an additional \$12,000 per year is granted by iCORE. Those who hold a PGS-B scholarship receive an additional iCORE award of \$15,000 per year. This program is currently operating for the 2000-01 academic year.

Recruiting Grants

Grants averaging \$10,000 each are available to support faculty members at Alberta universities plan, develop and recruit research teams. These grants, called ICT Strategy, Planning and Recruiting (ISPR) Grants, can be used to cover the costs of travel and accommodation involved in recruiting-related activities.

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Map mania

Canada's finest academic map collection is on showcase at Carto 2000

By Phoebe Dey

Have you ever wanted to trace Dorothy's course as she navigated through Oz? How about marking Long John Silver's hobbled journey across Treasure Island? Open an atlas in Cameron Library—the paths are already mapped out.

"Pretty much anything that has a geographic context and that varies from place to place can be expressed in a map," said David Jones, map librarian of the U of A's William C. Wonders Map Collection. "Here we focus on all types—except road maps. Ours range from star maps, imaginary places, and topographical maps to the hockey map of Canada, which lists birthplaces of all Canadian players in the NHL. There's quite a variety."

The William C. Wonders Map Collection is the largest academic map collection in Canada and one of the most prestigious in North America. The grouping will be on display to map enthusiasts at Carto 2000, an international conference of cartographers and map librarians, May 31-June 4. Workshops will discuss technologies on map design, cartographic education, use of maps and digital data, and research and map production.

Stored in grey filing cabinets and stacked in shelves, the collection houses maps titled "The Climate of Africa," "The Atlas of Legendary Places," "Clan Map of Scotland," "Narnia and the Surrounding Countries," "Linguistic Atlas of Texas German," and "The Marvelous Land of Oz."

Dr. William Wonders, a former chair of geography, started the collection in the 1950s. Since then, it has

grown to include more than 460,000 maps, 5,000 atlases, around 1.5 million aerial photographs and 600 gazetteers and globes. Early records of the grouping are catalogued in 26 historical handwritten binders, which were previously the only access to the collection.

Although some maps are worth thousands of dollars, value is in the eye of the beholder, said Jones.

"If it has information you are looking for it's valuable," he said. "But for market value, rarity and demand come into play."

In the U of A collection, the most valuable piece would be an original hand-coloured Ortelius Atlas published in 1587 and worth about \$50,000.

A recent addition to the set is an extensive assortment of road maps donated by U of A alumnus Donald Campbell.

"He started collecting maps as a teen," said Jones. "If someone was remembering a trip they took to California in the late 1950s, for example, they could look at those maps and figure out which route they went and what has changed since then."

Different maps appeal to different people, said Dan Duda, a campus map assistant. Genealogists, historians, archaeologists and biologists are a few people who take advantage of the U of A's resources, said Duda.

"If you are a genealogist and you're looking for grandma's or grandpa's village in the Austro-Hungarian Empire, you'd look here," he said. "Historians like to look at how things have developed and archaeologists want to see how land is laid out before doing any digging."

One lucky academic stumbled upon a treasure map, said Duda. When a geologist was in the office of the former curator, he noticed a map of ancient Egypt on the wall. After further inspection, the visitor discovered it was a map of the country's old gold mines. The geologist used the map in Egypt and literally struck gold.

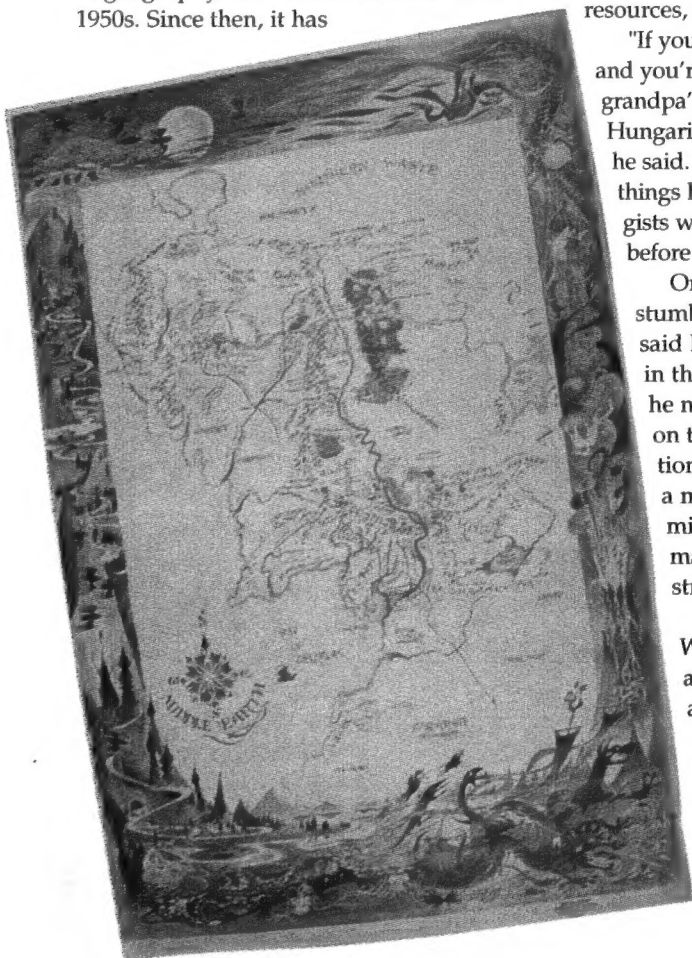
Perhaps Dorothy needed a William C. Wonders map in Oz and not the yellow brick road after all.

Right:
A 1972 map of
C. S. Lewis' Narnia
and the surrounding
countries.

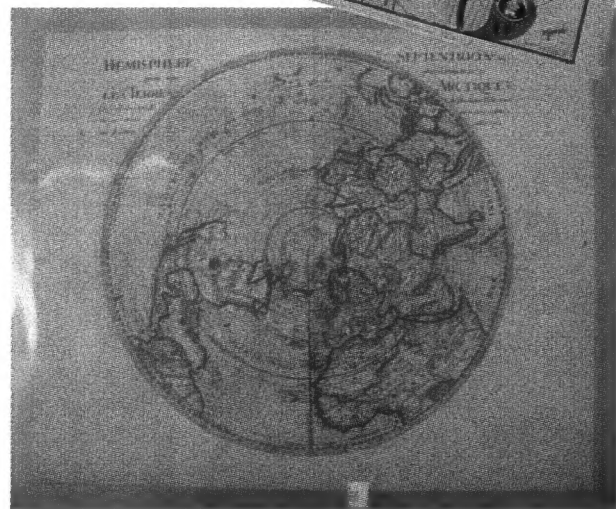
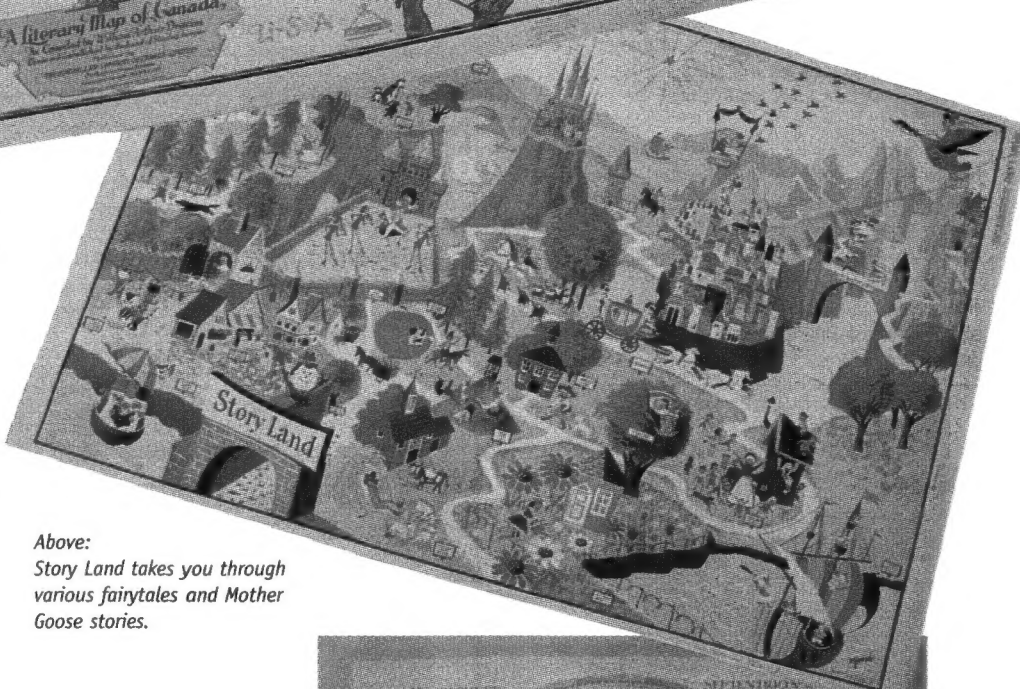
Left:
A literary map of
Canada, 1936, with
"some books of the
St. Lawrence Basin"
and "The Land of
Evangeline" insets.

Above:
Story Land takes you through
various fairytales and Mother
Goose stories.

Guillaume Delisle,
1675-1726, of the Académie
royale des sciences (France)
is the author of this
Arctic map (right).



Another imaginary place: Middle Earth.



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